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"Financial problems are nuts and clover for demagogues."—J A. GARFIELD.

H. S. GIVLER, Prop.

### TWENTY-SECOND YEAR.

## WA-KEENEY, KAN., APRIL 28, 1900.

NUMBER 8

NO OTHER KANSAS CROP YIELDS AS MUCH WEALTH PER ACRE.

Feed to Stock With Corn It Greatly In preases the Value of the Corn Difficulties of Raising It-Its Numerous Peculiar Qualities.

Kansas City Star.

the states east of the Missouri river. These crops are: .

Acres.

And the greatest of these is alfalfa; not in the extent of its cultivation, but in the profitableness of it to those who know how to plant it, to care for it and to feed it. The alfalfa fields of western Kansas are yielding to their owners a greater net profit per acre than any other land of no greater value to be found anywhere in the world. Three crops of hay a year, yielding often five tons to the acre, and worth all the way from \$10 to \$40, according to the yield and the season, alfaifa is certainly one of the most wonderful crops raised anywhere in

the world. It has been demonstrated by chemical analysis and by experience that duce corn, and on a good many soils of September. three times that of prairie hay, 50 per a soil, however, that is rich in the cent greater than that of red clover mineral elements of plant food, such hay and almost as great, pound for as potash, lime, magnesia, phosphoric pound, as that of bran. Indeed, the acid, and sulphur. A soil formed from leaves of alfalfa, properly cured, con- decomposed limestone is ideal for the tain more of the essentials for the growth of alfalfa. In central and production of meat than wheat bran.

But alfalfa is the scientific farmers' crop. It needs not only careful prep- bottoms of that section is considered aration of the soil and careful seed. the most valuable alfalfa land. ing, but a larger part of its good qual-

Agricultural college at Manhattan an income from their lands far great-With hogs worth 5 cents a pound on culture. the farm this is a net return of \$38.80 per acre. What crop in Kansas can equal that, even in an exceptional

botanist of the Agricultural college plant roots may not meet with dis- weedy grasses can hurt the alfalfa. at Manhattan. Mr. Clothier says:

HISTORY OF ALFALFA.

GREAT VALUE OF ALFALFA rope call it lucerne. Early in the his- be grown on freshly plowed land. If. wishes to try the experiment sow a quired some of its wonderful powers ing. of resistance to heat and drought.

Kansas has 1,300,000 acres planted in the Mississippi-and even beyond. York from the humid portions of Europe as early as 1820, but this impor-cently the United States Department of Agriculture has imported seed from the arid plateaus of Turkestan, and in Kansas in every month from March der a roof, as it does not turn rain this stock promises to be even more to September. Where the ground is well. Alfalfa should be cured and hardy and a greater boon to agricul- not weedy spring seeding has been stacked, if possible, without being ture than has the South American practiced with success. The cold rained upon. No other crop is so easimportation.

THE PROPER SOIL.

the feeding value of alfalfa hay is where corn will not grow. It prefers western Kansas 'alkali gumbo,' such as is frequently found on the creek

"In considering the food require-

PREPARATION OF EASTERN KANSAS

The experts and experimentors at of the West by simply scattering the can readily find the reasons for differthe Manhattan college are making a seed among the prairie grasses and ence of opinion among good farmers vigorous effort to encourage the plant- harrowing it in with an Acme or a as to the quantity of seed to sow. As ing of alfalfa in eastern Kansas, and disk harrow, or by seeding after the low as eight to ten pounds per acre those who have adopted proper meth- breaking plow on prairie sod, such have frequently been used with sucods declare that it can be produced methods are not to be recommended. cess. in any part of the state, and also in The preparation of the soil for this Nebraska and Oklahoma. The fail- valuable crop should be made with ures have been much more numerous about as much earnestness and ener- or in drills. The seed should be covthan the successes in the eastern part gy as is usually manifested by the ered about one inch in depth, unless of the state, but those who have not young man in planning his new home the surface be very dry, when a some-

tory of the Western continent, the on the first day of May, one has a ton of foxtoil seed per acre on my al-Spaniards carried alfalfa with them clean piece of corn stubble which he falfa meadow and disk it in thoroughto South America, where, as an es- is anxious to seed at once, he could in ly. I have no fear that the alfalfa cape from civilization, it is said to be all probability secure a better stand would be injured. found to-day growing wild over large by thoroughly disking and cross-diskareas. In the arid districts of the ing the ground, and, after smoothing great advantage to an uneven stand Andes mountains it has no doubt ac- with a harrow, seeding without plow- of alfalfa. This causes the roots and

"Alfalfa was carried from Chili to land for spring seeding is by fall or disk cuts or bruises the crown many California about the year 1853, and winter plowing. The ground should new buds are formed, and thus the from there it has spread eastward to be disked a number of times at vary- number of shoots is materially ining intervals before seeding to keep creased. crops that are practically unknown in Lucerne was introduced into New it covered with the beneficent dusk blanket. Ground prepared in this way, after receiving the immediate tation seems not to have possessed harrowing always necessary, should Let it wilt in the swaths and then be seeded early in April in the north rake it into windrows to cure. It half of Kansas

TIME OF SEEDING.

"The most desirable soil for alfalfa plants to rot off, as would be the case gating 1,76 inches of rainfall, conis that of fertile creek or river bot- with the adult plant when submerged tained 11.01 per cent of protein, while tom' lann, well drained and not sub- for two or three days. If the land hay from the same land, cut the same ject to inundation. Any soil which has been given an opportunity to gar- day, but air dried without exposure, retains standing water on its surface ner up a bountiful supply of moisture, contained 18.71 per cent. Alfalfa hay forty-eight hours will not successful- early fall seeding will often be suc- rained upon is worth about half what ly produce alfalfa. With this reser- cessful in eastern Kansas. This seed- it would be were it unexposed. vation, I believe it safe to assert that ing should be done in the latter half it will grow on any soil that will pro- of August or not later than the 10th time and in the right manner very

QUANTITY OF SEED NEEDED.

"The quantity of seed to sow on an acre is a question of considerable importance. The majority of successful growers advise twenty to thirty pounds. If the seed were universally good and the ground always well prepared, this would be grossly extravagant. Prof. Headden has made some interesting observations upon the 'stand' of alfalfa in a number of meadows. A field of alfalfa six months old ities can be spoiled in the harvesting ments of alfalfa, we need take into was found to contain 653,400 plants than any other crop the state raises, account only the mineral elements, per acre; another field of ten years unless great attention is given to the since the plant is able to draw more old was found to contain 526,793 time of cutting and the manner of nitrogen from the atmosphere by plants to the acre; another contained three tons on the average. The quessaving it. Nor is this all. Alfalfa's means of the tubercles on its roots 139,392 plants to the acre. All of greatest value is making up a "bal- than it can use, and thus to enrich these three fields yielded the same anced ration" for stock. It contains the soil by the addition of this other- quantity of hay per acre-a little over and the feeding of alfalfa along with corn in the proper proportion immensely increases the value of the later cereal.

It may be fed or pastured, however.

It may be fed or pastured, however. a large per cent of protein, an ingre- wise most expensive element of food- four tons. Another field 12 years old It may be fed or pastured, however, cultivated area of Kansas were sown twelve, three and less than two by itself with great profit. At the to this crop, her people would enjoy plants per square foot. A pound of aifalfa seed contains 210,000 seeds. If Agricultural college at Mannattan and income that which could possibly be hogs pastured on alfalfa made a gain er than that which could possibly be 90 per cent of them germinate, twenthan \$8 per acre for the whole state. of 776 pounds per acre of alfalfa. secured from any crop known to agri- ty pounds per acre would give 3,780,-000 plants, or eighty-eight per square foot. After nine-tenths of the young plants have perished from crowding "Although successful stands of al- or accidents we would still have an falfa have been secured in some parts ample stand. From these facts one

CARE OF THE CROP. "Alfulfa may be seeded broadcast of the state, but those who have not been able to get a good stand have not adopted the proper processes of preparing the land and of planting.

The last quarterly report of Secretary Coburn of the State Board of Agriculture is devoted to the subject of "Forage and Fodders," and the first place is given to alfalfa. The principal article on this subject was written by George L. Clothier, assistant to the mone of the subsequent crop of these ond young man in planning his new home for the reception of his prospective bride. In both cases the preparation of his prospective bride. In both cases the preparation generally outlines work for a lifetime. The preparation of the soil should rightly begin two or three years before the time of seeding.

"Forage and Fodders," and the first place is given to alfalfa. The principal article on this subject was written by George L. Clothier, assistant to the mone of the subsective bride. In both cases the preparation of the subjective bride. In both cases the preparation of the subjective bride. In both cases the preparation of the subjective. The preparation of the soil should rightly begin two or three years before the time of derive from them. Cure, manufactured by F. J. Cheney & Co., Toledo, O., contains no mercury, and is taken internally acting or three times during the summer to keep down the weeds. Foxtail and crab grass are great enemies to young alfalfa. If a good stand have the first term for the subject was will do is the sufface be very dry, when a some what greater depth is admissible. After the alfalfa has been sown in the surface be very dry, when a some what greater depth is admissible. After the alfalfa has been sown in the surface be very dry, when a some what greater depth is admissible. After the alfalfa has been sown in the surface be very dry, when a some what greater depth is admissible. After the alfalfa has been sown in the surface be very dry, when a some three depth is admissible. After the alfalfa has been sown in the surface be very dry, when a some ten by George L. Clothier, assistant twenty inches, so that the young ond year, no subsequent crop of these couraging difficulties too early in life. Foxtail and crab grass are annuals, The seed-bed should be as fine as an while alfalfa is a perennial that can ending April 20, 1900: Number of pu-"Alfalfa has been cultivated since onion bed, and the subsurface be crowd the weeds to death. I have pils enrolled 33. Average daily atthe dawn of ancient civilization. It rather firm and well supplied with heard farmers complain that the fox- tendance 26.9. Cases of tardiness 9 was familiar to the Eyptians, Medes moisture. Manure plowed under at tail was ruining their alfalfa. I think Those not absent or tardy: Clarence, and Persians, Greeks and the Romans, the time of subsoiling will add great- all cases of this kind were caused by Harry and Millie Roberts, Nellie Dawho distributed it over a large part ly to its physical condition, and thus overpasturing the alfalfa, or by some vidson, Caroline, Annie and Lawrence of Southern Europe. It is known in Spain by its Arabic name alfalfa. life with less difficulties to encounter. obtained a firm foothold upon the erts were not absent or tardy during

"The use of the disk harrow is a crowns to become thicker in diameter "The better way to prepare clean and more vigorous. Wherever the

HOW TO HARVEST ALFALFA HAY. "Mow down as much of the crop at

once as can be handled in one day. should be put into the stack with just as little handling as possible. When "Alfalfa has been successfully sown possible, alfalfa should be stored unrains of spring, however, when exces- ily injured by rain. Hay exposed for sive, sometimes cause the young fifteen days to three showers, aggre-

"Harvesting alfalfa at the right largely determines its feeding value. The majority of farmers wait too long before starting the mowing machine. Alfalfa for hay should be cut when one-fourth to one-half of the blossoms have opened. When let stand longer many of the leaves fall off and are wasted. Mowing early stimulates the growth of the following crop. Allowing it to go to seed seemingly exhausts the plant for that season.

THE YIELD PER ACRE. "The yield of hay on some of the best Kansas lands may reach six tons per acre, in favorable seasons. However, one must not expect more than 'What is the lowest yield that a farmer may get and yet realize an income from the crop?' In the semifalfa hay makes it worth at least \$8 per ton for feeding purposes. The Kansas corn crop seldom pays more Some of our western friends are not at all contented with such a low yield, and if they cannot get the four to five tons usually harvested in their locality from the bottoms they assert that alfalfa is a failure on the up-

[Continued next week.] BEWARE OF OINTMENTS FOR CATABRE THAT CONTAIN MERCURY.

as mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physical street. on prescriptions from reputable physicians, as the damage they will do is

Hall's Family Pills are the best

Report of Ogallah school for month while the nations of the rest of Eu- "If avoidable, alfalfa should never ground, I will let any farmer who the term. W. F. Swiggett, teacher.

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